



UNITED STATES DEPARTMENT OF COMMERCE
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p: 1 of 2

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKETT NO.
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EXAMINER

ART UNIT	PAPER NUMBER
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11

DATE MAILED:

EXAMINER INTERVIEW SUMMARY RECORD

All participants (applicant, applicant's representative, PTO personnel):

(1) Dr. Huntley (3) Dr. Jay Stein
(2) John N. William (4) _____

Date of interview 3/15/95

Type: ☐ Telephonic ☒ Personal (copy is given to ☐ applicant ☒ applicant's representative).

Exhibit shown or demonstration conducted: ☒ Yes ☐ No. If yes, brief description: photograph of invention

Agreement ☒ was reached with respect to some or all of the claims in question. ☐ was not reached. (see below)

Claims discussed: all pending

Identification of prior art discussed: all applied

Description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant presented proposed amended claim 57 (attached). Examiner stated that the amendment appeared to distinguish over applied art. Examiner agreed to telephone applicant's attorney

(A fuller description, if necessary, and a copy of the amendments, if available, which the examiner agreed would render the claims allowable must be attached. Also, where no copy of the amendments which would render the claims allowable is available, a summary thereof must be attached.)

☐ 1. It is not necessary for applicant to provide a separate record of the substance of the interview.

Unless the paragraph below has been checked to indicate to the contrary, A FORMAL WRITTEN RESPONSE TO THE LAST OFFICE ACTION IS NOT WAIVED AND MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW (e.g., items 1-7 on the reverse side of this form). If a response to the last Office action has already been filed, then applicant is given one month from this interview date to provide a statement of the substance of the interview.

☐ 2. Since the examiner's interview summary above (including any attachments) reflects a complete response to each of the objections, rejections and requirements that may be present in the last Office action, and since the claims are now allowable, this completed form is considered to fulfill the response requirements of the last Office action. Applicant is not relieved from providing a separate record of the substance of the interview unless box 1 above is also checked.

David Huntley
Examiner's Signature



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D. 2 of 2

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Exhibit shown or demonstration conducted: ☐ Yes ☐ No. If yes, brief description: _____

Agreement ☐ was reached with respect to some or all of the claims in question. ☐ was not reached.

Claims discussed: _____

Identification of prior art discussed: _____

Description of the general nature of what was agreed to if an agreement was reached, or any other comments: *after a*

formal amendment was submitted if
remaining issues existed in the application

(A fuller description, if necessary, and a copy of the amendments, if available, which the examiner agreed would render the claims allowable must be attached. Also, where no copy of the amendments which would render the claims allowable is available, a summary thereof must be attached.)

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Daniel H. Hurd
Examiner's Signature

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--37. A method of detecting ^{a target object of a} specific material of

interest in an ensemble of objects, comprising:

providing a stationary X-ray exposure system, a stationary X-ray detection system, and a computer operatively connected to said detection system,

moving ~~sequentially~~ on a conveyor, ^{said} an ensemble of objects through an inspection region,

exposing, at said inspection region, said ensemble of objects to X-ray radiation of ~~at least two substantially different energies,~~

detecting X-ray radiation transmitted through said ensemble of objects, and providing to said computer X-ray data corresponding to the intensity of transmitted radiation of ~~said two energies,~~

calculating a value of a specific property of ~~a said target object.~~
~~said~~ specific material of interest in said ensemble of objects, and ~~therewith~~
^{identifying} ~~automatically discriminating~~ said ^{target object,} specific material of interest
~~from other objects that are present based on the calculated value~~
~~of said specific property,~~

^{in said calculation} utilizing x-ray transmission data of rays passing through said ensemble of objects, ~~and~~ near but not through said ~~target object~~
~~specific material of interest~~ to remove by computer calculation the contribution of ~~unwanted~~ overlying and underlying material from the calculated value of said specific property of said ~~target object~~
~~specific material of interest,~~ and

automatically indicating, ~~based on said discrimination,~~
^{target object} the presence of said ~~specific material of interest~~ while said ensemble of objects progresses on said conveyor.--

^{target} including rays passing through said ~~a~~ object of said specific material of interest as well as rays passing